



QUICK-SPECS *Info*

QUICK SPECS FOR:

DeoxIT® D-Series (D100L)

DeoxIT® Gold G-Series (G100L)

DeoxIT® Gold Gx-Series (Gx100L)

DeoxIT® Gold Gx2-Series (Gx2)

DeoxIT® Gold Gx3-Series (Gx3)

DeoxIT® Shield S-Series (S100L)

DeoxIT® Fader F-Series (F100L)

| A GENERAL INFORMATION: (1-Poor, 5-Excellent) | | Notes | DeoxIT® | DeoxIT® | DeoxIT® | DeoxIT® | DeoxIT® | DeoxIT® | DeoxIT® |
|---|--|-------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------|
| | | | D-Series | Gold | Gold GxL | Gold Gx2 | Gold Gx3 | Shield | Fader |
| 1 | Product Part Number (100% concentrate) | | D100L | G100L | GX100L | Gx2 | Gx3 | S100L | F100L |
| 2 | Use on Metals ("M"), Plastics ("P") or Both ("MP") | | M | M | M | M | M | M | P |
| 3 | Deoxidizing ability (% of formulation) | | 20% | 0.50% | 0% | 0% | 0.50% | 0% | 0% |
| 4 | Use on Severely Oxidized Surfaces | (A) | Yes | No ^(B) | No ^(B) | No ^(B) | No ^(B) | No ^(B) | NA |
| 5 | Use on Surfaces with Minor Amounts of Oxidation | (C) | No ^(C) | Yes | Yes | Yes | Yes | No | NA |
| 6 | Use on Clean/New Surfaces | (D) | No ^(D) | Yes | Yes | Yes | Yes | Yes | Yes |
| 7 | Improves Conductivity (1-5) | | 3 | 4 | 5 | 5 | 5 | 1 | 2 |
| 8 | Lubricates & Protects (1-5) | | 3 | 3 | 3 | 4 | 4 | 5 | 2 |
| 9 | Reduces Fretting/Dendrite Corrosion (1-5) | | 3 | 5 | 5 | 5 | 5 | 2 | 1 |
| 10 | Penetrates Plating and Seals Base Metals (1-5) | | 2 | 4 | 5 | 5 | 5 | 2 | NA |
| 11 | Flammable/Corrosive (100% concentrate) | | No | No | No | No | No | No | No |
| 12 | Easy to Remove and Re-apply (1-5) | | 5 | 5 | 5 | 5 | 5 | 4 | 4 |
| 13 | Effectiveness - length of time before re-application (1-5) | (E) | 3 | 4 | 4 | 4 | 4 | 5 | 3 |
| 14 | Shelf Life - storage (years) | | (3-5) | (3-5) | (5-8) | (3-5) | (3-5) | (3-5) | (3-5) |
| 15 | RoHs and VOC Compliant | | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| B COMPATIBILITY: (1-Poor, 5-Excellent) | | | | | | | | | |
| 16 | Plastics Compatibility (1-5) | | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 5 |
| 17 | Effective of Moving/Vibration Surfaces (1-5) | | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 18 | Effective on Gold Surfaces (1-5) | | 4 | 5 | 5 | 5 | 5 | 3 | NA |
| 19 | Effective on LOW (µA) amperage/voltages (1-5) | | 4 | 5 | 5 | 5 | 5 | 4 | 2 |
| 20 | Effective on HIGH (>10 amps) amperage/voltages (1-5) | (F) | 4 | 3 | 3 | 3 | 3 | 4 | 2 |
| 21 | Effective in Severe Environments (humidity, pollution, etc.) | | 2 | 2 | 2 | 2 | 2 | 4 | 1 |
| C SPECIFICATIONS/TECHNICAL: | | | | | | | | | |
| 22 | Temperature Range (°C) - Minimum | (G) | -34 | -34 | -45 | -45 | -34 | -34 | -26 |
| 23 | Temperature Range (°C) - Maximum | (G) | +200 | +240 | +275 | +310 | +240 | +210 | +180 |
| 24 | Specific Gravity (H ₂ O=1) | | .884 | .845 | .845 | .845 | .845 | .91 | .93 |
| 25 | Pour Point (°C) ^(H) (ASTM D97) | (H) | <-27 | <-45 | <-45 | <-45 | <-29 | <-45 | <-39 |
| 26 | Flash Point (°C) ^(I) | (I) | 198 | 193 | 202 | 225 | 195 | 190 | 192 |
| 27 | Vapor Pressure (mmHg @ 20°C / 68°F) (100% concentrate) | | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| 28 | % Volatile by Weight (100% concentrate) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | Evaporation Rate (n-BuAc=1) | | Approx. 0 | Approx. 0 | Approx. 0 | Approx. 0 | Approx. 0 | Approx. 0 | Approx. 0 |
| 30 | Solubility in Water (25°C/77°F) | | < 0.1% | < 0.1% | < 0.1% | < 0.1% | < 0.1% | < 0.1% | < 0.1% |
| 31 | Viscosity (cSt @ 40°C) | | 30.9 | 38.6 | 36.5 | 37.1 | 37.5 | 43.9 | 39.1 |
| 32 | Total Acid Number (mg KOH/g) | | 51.50 | 1.71 | 0.86 | 0.42 | 0.26 | 3.89 | 2.58 |
| 33 | Electrical Conductivity (Siemens/m) | | 4.00E-10 | 5.98E-11 | 2.82E-09 | 4.26E-08 | 2.43E-08 | 1.27E-08 | 1.09E-09 |
| 34 | Dielectric Constant (E _r) | (J) | 2.314 | 2.314 | 2.301 | 2.301 | 2.301 | 2.376 | NA |
| 35 | Dielectric Strength (Volts/Mil) (ASTM D877-13. Procedure 1) | (J) | 341 | 333 | 287 | 265 | 260 | 251 | 299 |
| 36 | Insulation Resistance (Ohms) | (J) | 1.25E+10 | 8.40E+10 | 1.78E+09 | 1.95E+09 | 1.83E+09 | 3.96E+08 | 4.60E+09 |



Audio/Video



Computers



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Communications



Marine



Electrical



Energy



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Security



Medical



Avionics

NOTES/ASTERISKS:

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(A) "Severely oxidized surfaces": Oxidation/corrosion you can visually see on the metal surfaces. If it appears clean, there maybe be oxidation on surface; however it is not severe.

(B) These items should not be applied to severely oxidized surface. First clean with DeoxIT® D-Series or other cleaning method to remove oxidation/corrosion.

(C) "Minor amounts of oxidation": Surfaces that do not appear to have oxidation (If NOT Clean/New(D)). DeoxIT® Gold and Greases will remove minor amounts. DeoxIT® D-Series can be used.

(D) "Clean/New" Surface: Our definition of a perfectly clean surface, is one that has just been manufactured and cleaned with DeoxIT® D-Series or other cleaning method.

(E) "Effectiveness": The length of time between applications is determined by severity of specs and environment. For example; in a clean room one application could last decades, or if on a naval ship inside an engine room, may require once a year. General recommendation is 1-3 years.

(F) "High Amperage/Voltages connections": DeoxIT® liquids will do a good job treating for short/medium time frames. For additional protection, use DeoxIT® Greases.

(G) "Temperature limits": Conservative values and may vary depending on environment conditions (pollution, humidity, amperage/voltages). Recommend testing if near extremes.

(H) "Pour Points" are conservative. They are also determined by many factors; humidity, energized, moving contacts, etc.). Recommend testing if application is critical and close to limits.

(I) "Flash points" are conservative. Coating will leave a permanent protective layer.

(J) All values are relative to an ambient temperature of 21.90C, using 60 Hz. Dielectric strength value is a statistical average taken from 10 measurings. Voltage measurement taken with 0.5% accuracy.

Refer to CAIG website (www.caig.com) or CAIG associate (800-224-4123) for additional and detailed directions for the above Notes.

DeoxIT® Selection Guide
DeoxIT® D-Series, DeoxIT® Gold, DeoxIT® Shield and DeoxIT® Fader

INSTRUCTIONS: Select answers to the questions below. Product recommendations will display.
 Info Button gives you product detail information.
 Add-to-Cart Button. Select and it will add an item to the Cart. Cart will then open a new Browser window. To add another product to Cart, go back to Selection Guide Browser.

NOTE: Prices on these pages are CAIG's List prices. Distributors will offer better pricing. Please visit our [Distributor Page](#) for purchasing products locally or online.

Select Conductive Material: Ferrous
 Select Severity of Oxidation/Corrosion: Slight oxidation
 Is surface easy to access for applying DeoxIT®?: Difficult
 Any sensitive materials or components near surface?: Yes
 Flammability an issue?: Yes

Non-Selected = Will display all results
 Yes = Means that area may have sensitive materials (components or materials) and will require no solvent or fast evaporating solvent. Always check for compatibility.
 No = Means that area does not have sensitive materials. Always check for compatibility.

Found 5 product(s).

| Product Name | Description | Price |
|--------------|---|---------|
| DN55-2N | Mini-Spray, DeoxIT® D-Series, 5% solution, 40 g, non-Flammable. | \$14.95 |
| DN55-6N | Spray, DeoxIT® D-Series, 5% solution, 142 g, non-flammable. (NSN 6850-01-519-5548). | \$32.95 |
| DN55-6N-1MH | Spray, DeoxIT® D-Series, 5% solution, 142 g, non-flammable. (NSN 6850-01-519-5548). | \$34.95 |
| D100S-2 | Spray, DeoxIT® D-Series, 100% solution, 57 g, non-flammable, no solvents. (NSN 6850-01-435-6479). | \$23.95 |
| D100L-25C | Precision Needle Dispenser, DeoxIT® D-Series, 100% solution, 25 mL, non-Flammable. No solvents. Needle applicator: 1 mm diameter. (NSN 6850-01-412-8866). | \$34.95 |

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NEW SELECTION GUIDE!

Need assistance in selecting:
WHICH Product and WHICH Applicator?

Go To CAIG's Website:

<https://caig.com/help-learn/>

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